

Claims

What is claimed:

1. A printing method for printing, comprising:
receiving a print job; and
performing the print job, wherein performing the print job includes
printing non-uniform passes per raster in a contiguous vertical block of rasters.
2. The method of claim 1, wherein printing non-uniform passes per raster
includes printing a first raster with a first number of complete passes and
printing a second raster second number of complete passes.
3. The method of claim 2, wherein printing a first raster with a first number
of complete passes and printing a second raster with a second number of
complete passes includes printing a number of raster passes which is a non-
integer multiple of a minimum number of raster passes used to print each raster
once.
4. The method of claim 2, wherein printing a first raster with a first number
of complete passes and printing a second raster with a second number of
complete passes includes printing the first raster and the second raster in less
time than would be used to print each raster pass with the second number of
passes.
5. A method for non-uniform passes per raster printing, comprising:
interpreting a print job instruction set; and
modifying the print job instruction set to print a non-uniform number of
passes per complete raster over a single region of media.
6. The method of claim 5, wherein modifying the print job instruction set to
print a non-uniform number of complete passes per raster includes printing a

first raster in the region with a first number of passes and printing a second raster in the region with a second number of passes.

7. The method of claim 6, wherein modifying the print job instruction set to print a non-uniform number of passes per complete raster further includes printing a third raster with a third number of passes and printing a fourth raster with a fourth number of passes.

8. The method of claim 7, wherein printing a third raster with a third number of passes and printing a fourth raster with a fourth number of passes includes printing with a third and a fourth number of passes which are different from the first and the second number of passes.

9. A computer readable medium having a set of executable instructions for causing a device to perform a method, comprising:

interpreting the type of information contained in a region of a print job;
and

adjusting the print job to facilitate printing a number of rasters in less time than would be used for printing the number of rasters using an integer multiple of a minimum number of raster passes used to print each raster once.

10. The medium of claim 9, wherein interpreting the type of information contained in a region of a print job includes interpreting resolution data and print mode settings.

11. The medium of claim 9, wherein adjusting the print job to facilitate printing a number of rasters in less time than would be used for printing the number of rasters using an integer multiple of a minimum number of raster passes used to print each raster once includes printing a first raster with a first number of complete passes and printing a second raster with a second number of complete passes.

12. The medium of claim 9, wherein adjusting the print job to facilitate printing a number of rasters in less time than would be used for printing the number of rasters using an integer multiple of a minimum number of raster passes used to print each raster once includes printing at least two complete rasters with a different number of passes within a contiguous vertical block of rasters.
13. An apparatus, comprising:
a controller;
a printhead coupled to the controller; and
a printhead driver operable to interface instructions from the controller to the printhead, wherein the instructions include instructions to cause the printhead to perform non-uniform passes between rasters in a contiguous vertical block of rasters..
14. The apparatus of claim 13, wherein the instructions include instructions to print at least two complete rasters with a different number of passes.
15. The apparatus of claim 13, wherein the instructions include instructions to print a first raster with a first number of complete passes and to print a second consecutive raster with a second number of complete passes.
16. The apparatus of claim 15, wherein the instructions are operable to print the first raster and the second raster using a non-integer multiple of a minimum number of raster passes used to print each raster once in a vertical direction.
17. A printing device, comprising:
a printhead; and
means for controlling the printhead to perform non-uniform, complete passes per raster in a contiguous vertical block of rasters.
18. The device of claim 17, wherein the means includes a controller interfaced with one or more printhead driver electronics to control the printhead.

19. The device of claim 17, wherein the means includes a set of computer executable instructions operable to cause the device to print a first raster with a first number of complete passes and to print a second raster with a second number of complete passes within the contiguous vertical block of rasters.

20. The device of claim 19, wherein the means includes a set of computer executable instructions operable to cause the device to print the first raster and the second raster at a non-integer, complete pass multiple of a minimum number of raster passes used to print each raster once.

21. A printing device, comprising:

- a printhead driver;
- a carriage motor driver;
- a media motor driver;
- a processor;
- a printhead;

wherein the printhead driver, the carriage motor driver, the media motor driver, the processor, and the printhead are coupled via interface electronics for moving the printhead and media, and for firing individual nozzles of the printhead; and

wherein the printhead driver is operable to interface an instruction set from the controller to the printhead, wherein the instruction set includes instructions to cause the printhead to perform non-uniform passes between rasters within a contiguous vertical block of rasters.

22. An imaging system, comprising:

a remote device have at least one application operable to create a print job; and

a printing device operable to receive the print job from the remote device, wherein the printing device includes;

- a controller;
- a printhead coupled to the controller; and

a printhead driver operable to interface instructions from the controller to the printhead, wherein the instructions include instructions to cause the printhead to perform non-uniform passes between rasters within a contiguous vertical block of rasters.

23. The system of claim 22, wherein the instructions include instructions operable to cause the device to print a first raster and a second raster at a non-integer, complete pass multiple of a minimum number of raster passes used to print each raster once.